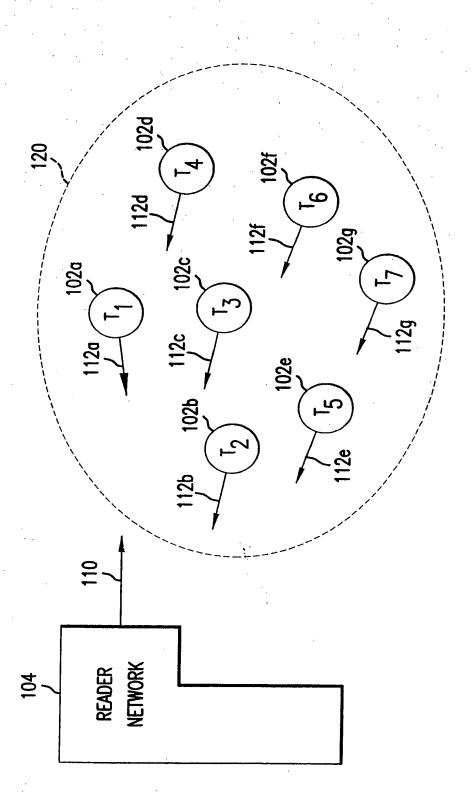
Replacement Sheet
Sheet 1 of 55
Appl. No. 10/073,000; Filed: Feb 12, 2002
Dkt No. 1689.0260000; Group Unit: 2636
Inventors: SHANKS et al.
Tel. No.: 202-371-2600
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With a RFID Tag Population





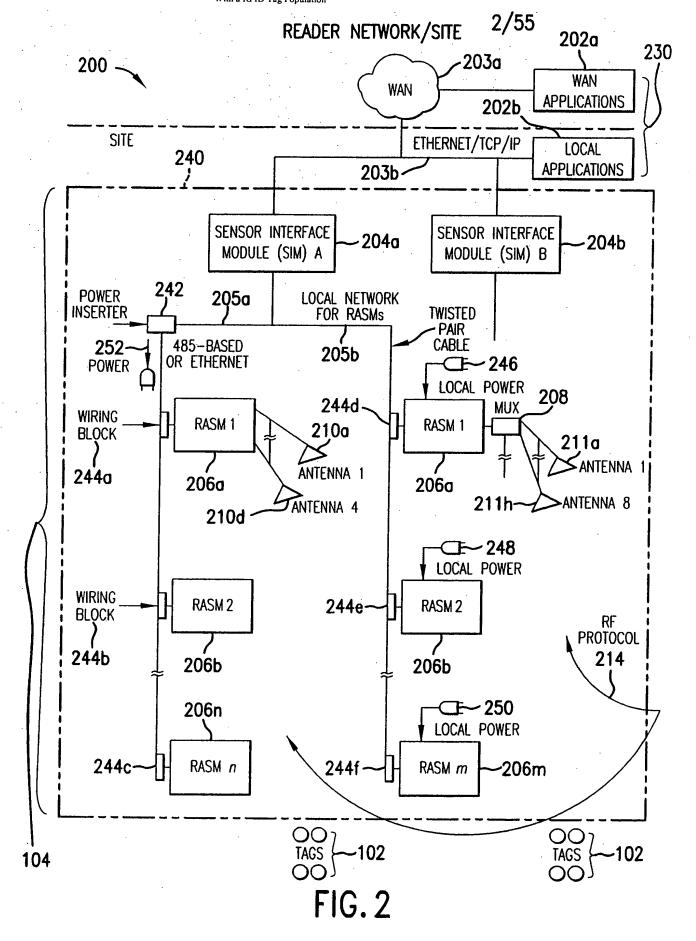


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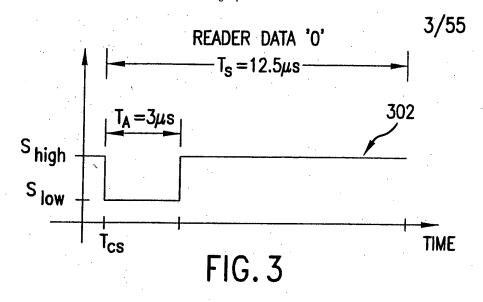
Inventors: SHANKS et al. Tel. No.: 202-371-2600

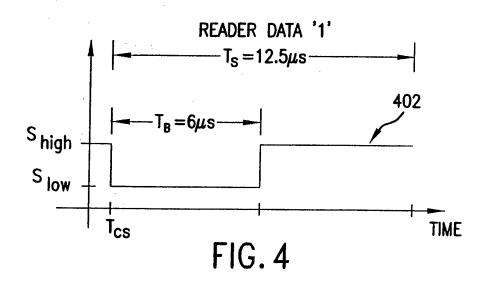
For: Method, System and Apparatus for Communicating With a RFID Tag Population

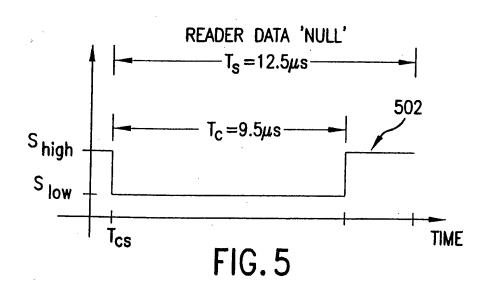


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Dkt No. 1689.0260000; Group Unit: 2636
Inventors: SHANKS et al.
Tel. No.: 202-371-2600
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READER BIT 'O' WITH TAG BIT 'O'

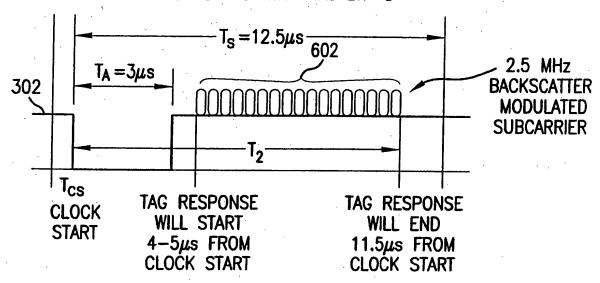


FIG. 6

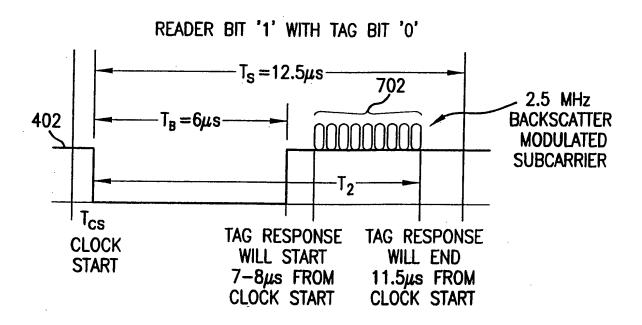


FIG. 7

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READER BIT 'O' WITH TAG BIT '1'

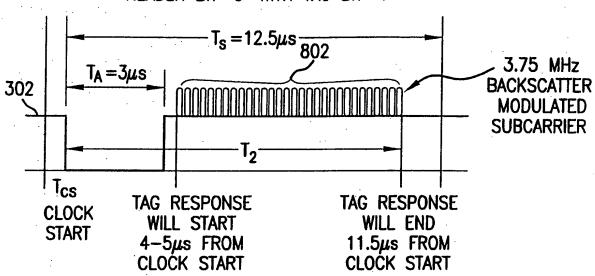


FIG. 8

READER BIT '1' WITH TAG BIT '1'

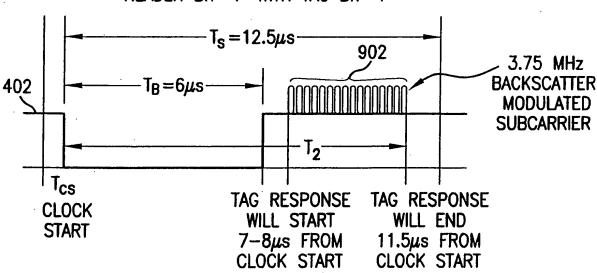


FIG. 9

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Inventors: SHANKS et al. Tel. No.: 202-371-2600

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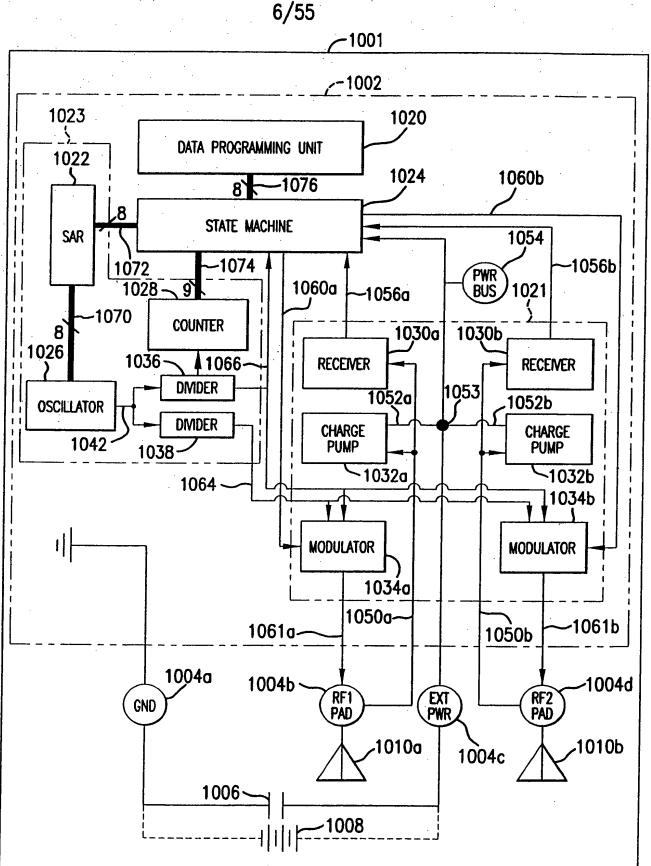


FIG. 10

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Tel. No.: 202-371-2600

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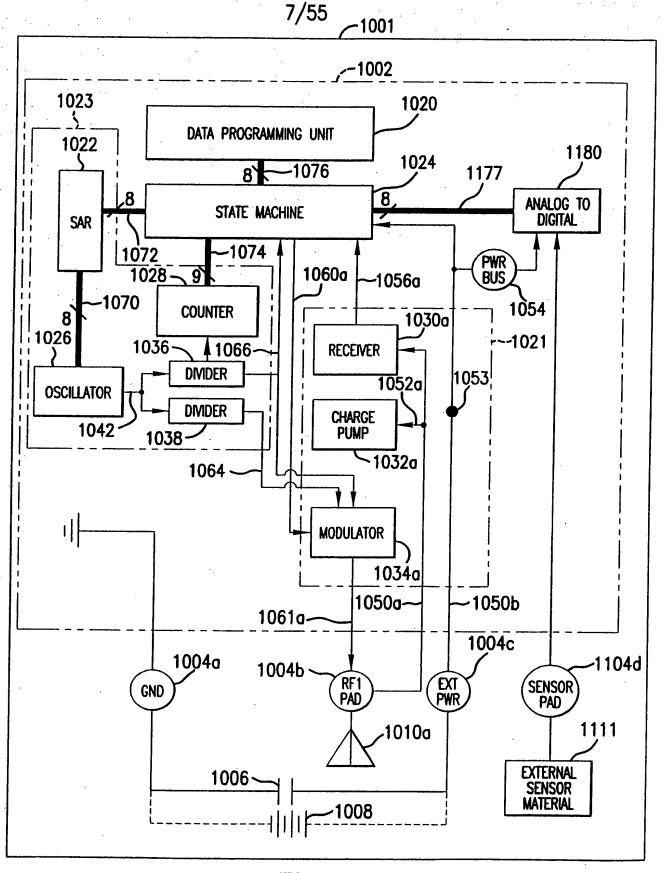


FIG. 11

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With a RFID Tag Population

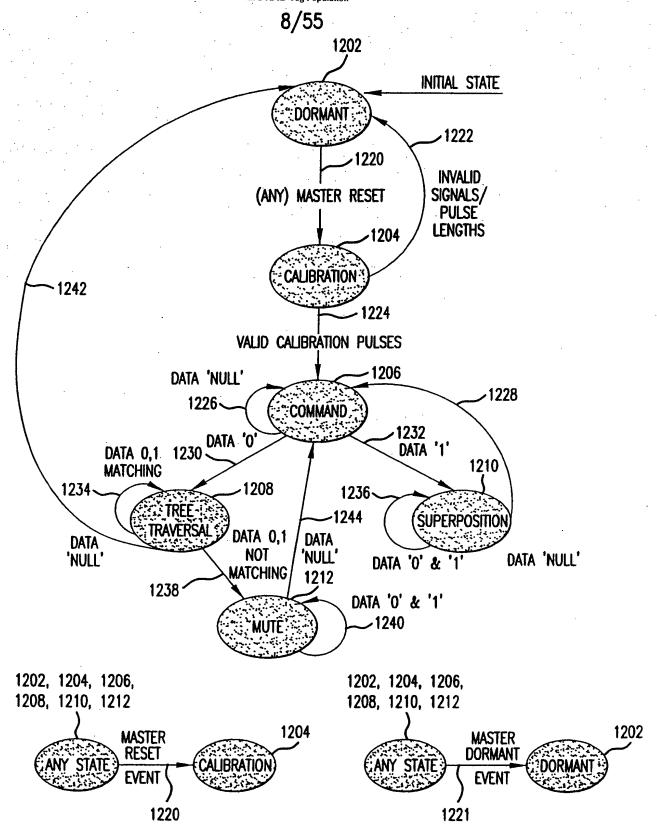
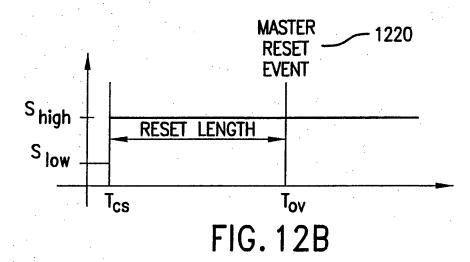
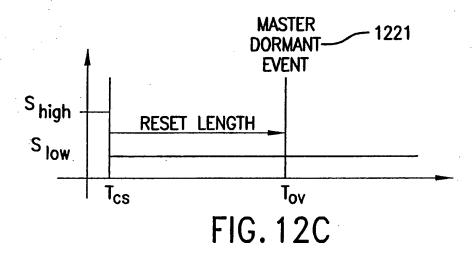


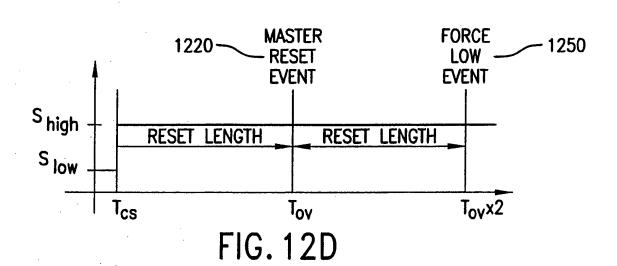
FIG. 12A

Replacement Sheet Replacement Sheet
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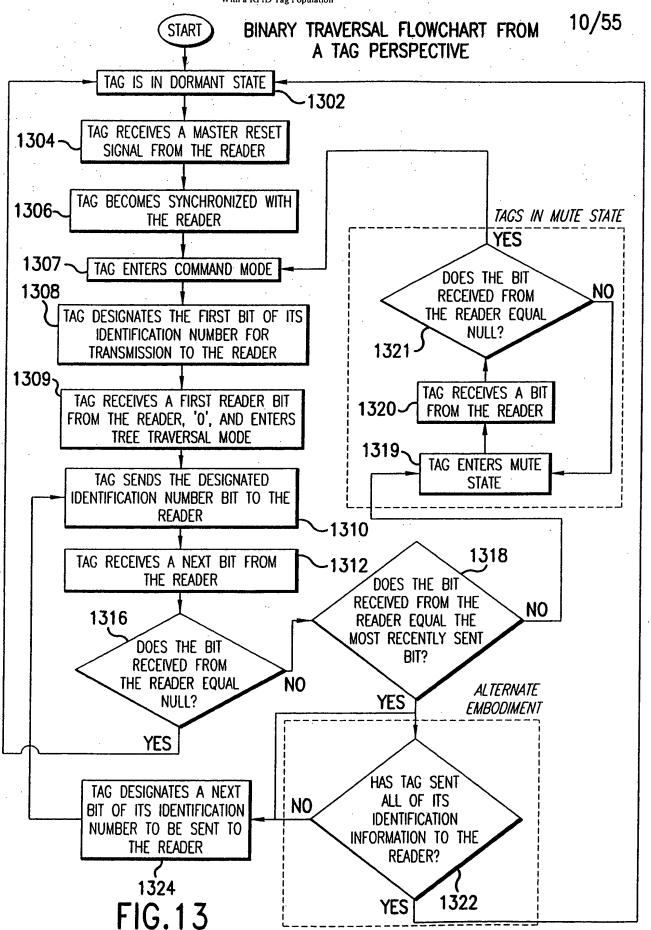
Replacement Sheet Sheet 10 of 55

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Inventors: SHANKS et al. Tel. No.: 202-371-2600

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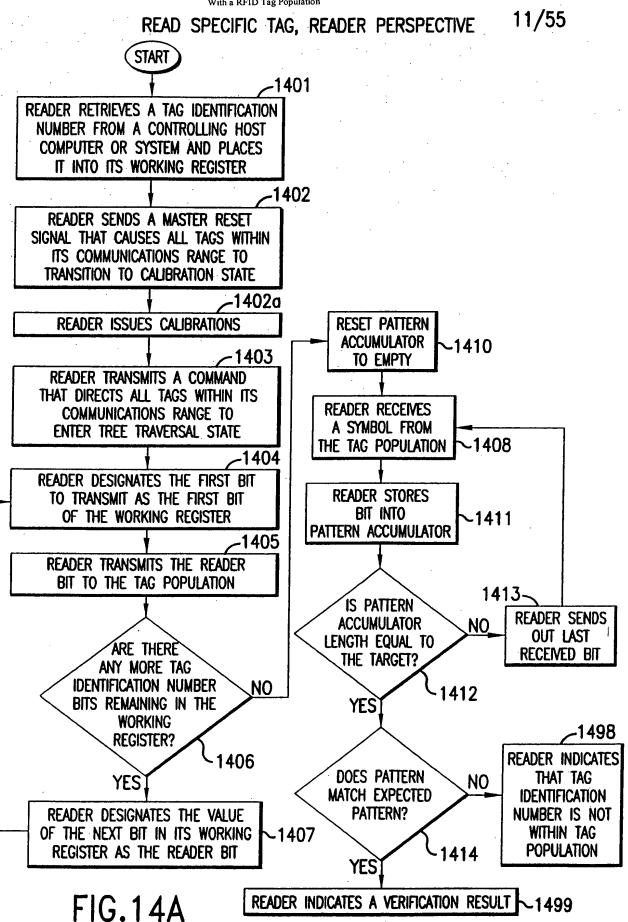


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Tel. No.: 202-371-2600

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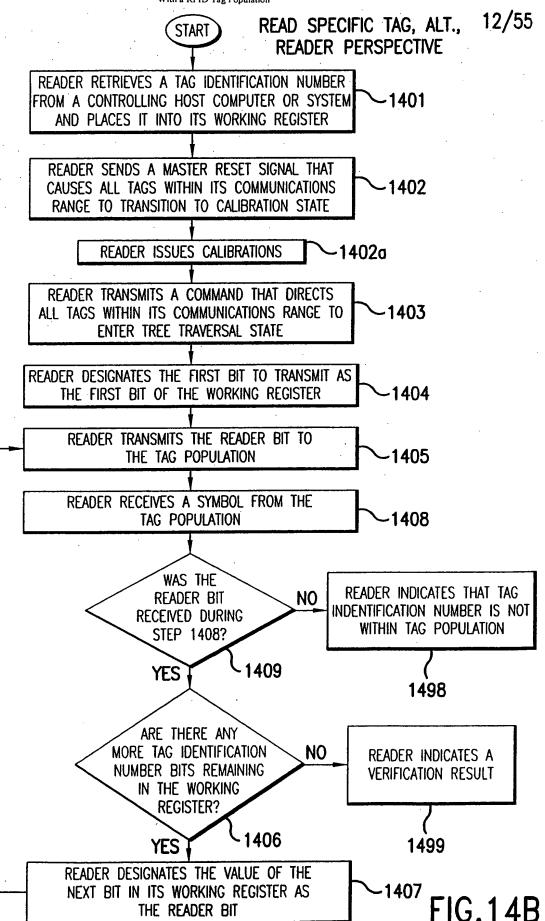


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Inventors: SHANKS et al. Tel. No.: 202-371-2600

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READ ALL TAGS, READER PERSPECTIVES

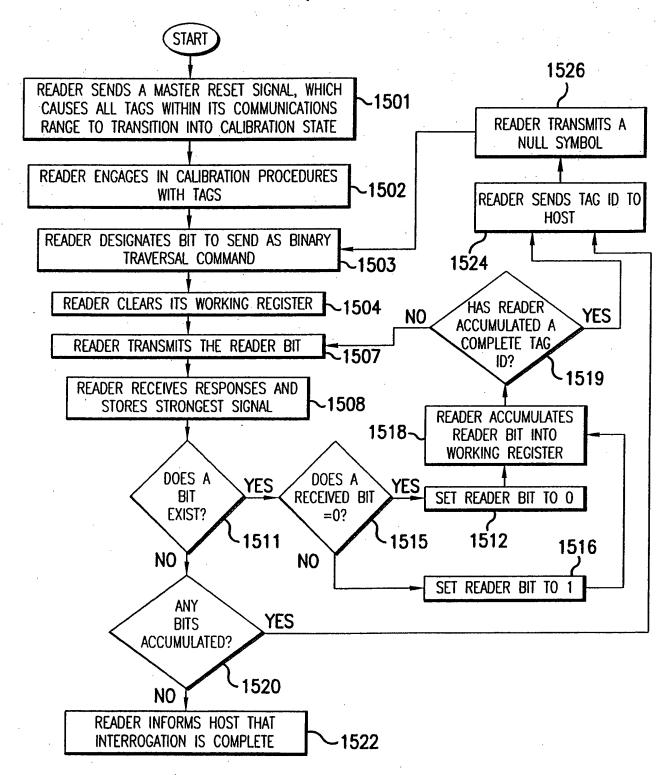
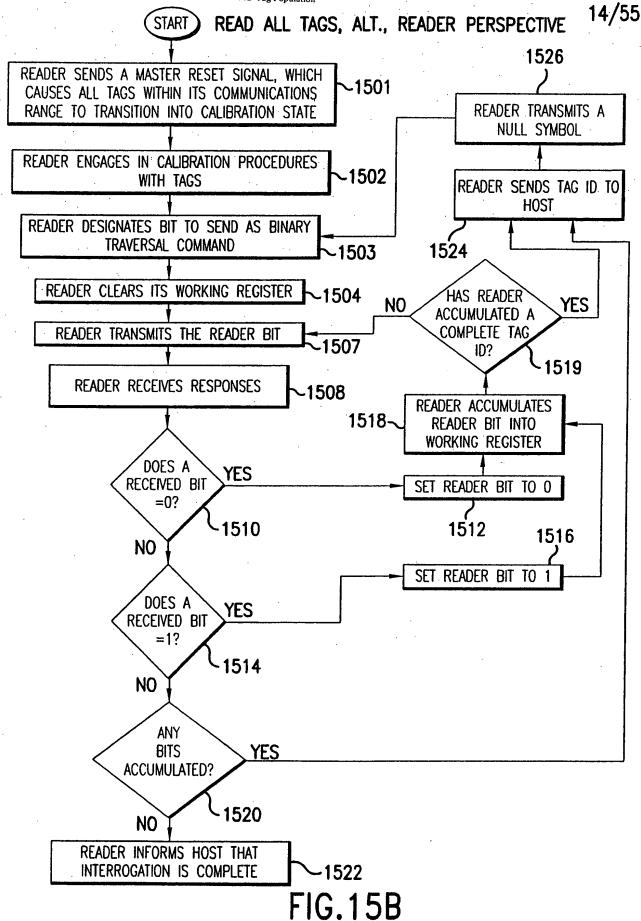


FIG.15A

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BINARY TRAVERAL PATHS AND TREE FOR A 3-BIT TAG POPULATION

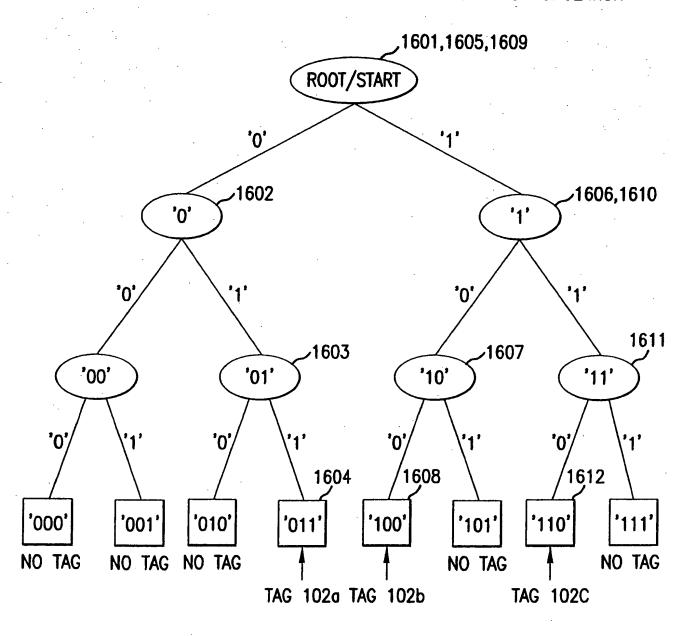


FIG. 16

Appl. No. 10/073,000; Filed: Feb 12, 2002 Dkt No. 1689.0260000; Group Unit: 2636 Inventors: SHANKS et al. Tel. No.: 202-371-2600 For: Method, System and Apparatus for Communicating With a RFID Tag Population 16/55 TAG IS IN DORMANT STATE -1702 TAG RECEIVES A MASTER RESET SIGNAL FROM THE READER -1704 TAG BECOMES SYNCHRONIZED WITH THE READER 1706 TAG RECEIVES A COMMAND FROM THE READER TO ENTER SUPERPOSITION 1708 STATE TAG DESIGNATES AN INITIAL BIT OF ITS **IDENTIFICATION NUMBER FOR** -1710 TRANSMISSION TO THE READER TAG RECEIVES A SYMBOL FROM THE READER 1712 IS THIS YES TAG RETURNS TO SYMBOL A NULL COMMAND STATE SYMBOL? 1714 NO 1720 DOES RECEIVED NO BIT MATCH DESIGNATED BIT? 1718 YES TAG SENDS DESIGNATED BIT -1719 TO READER TAG DESIGNATES A NEXT IDENTIFICATION FIG. 17A NUMBER BIT 1722

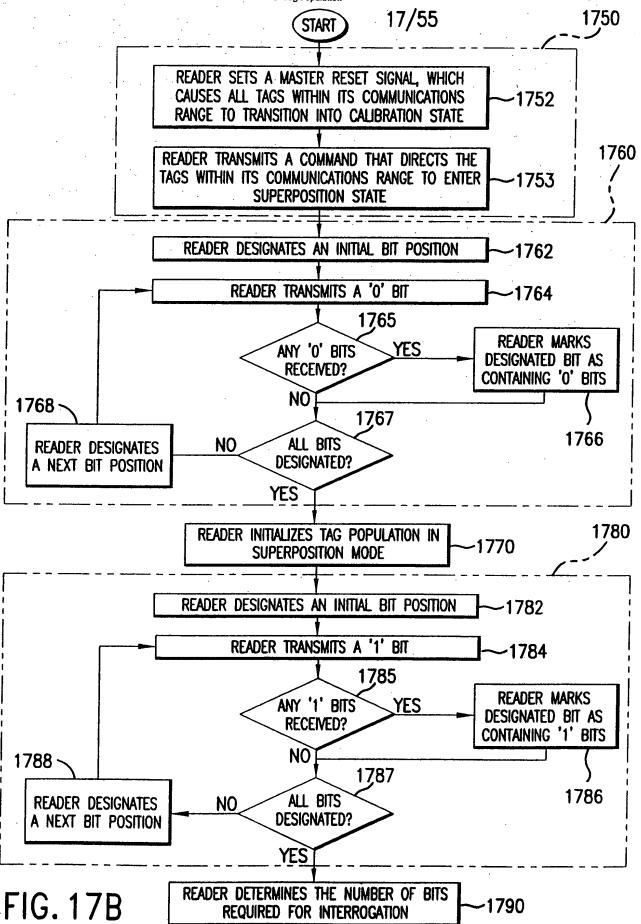
Replacement Sheet Sheet 16 of 55 Replacement Sheet Sheet 17 of 55

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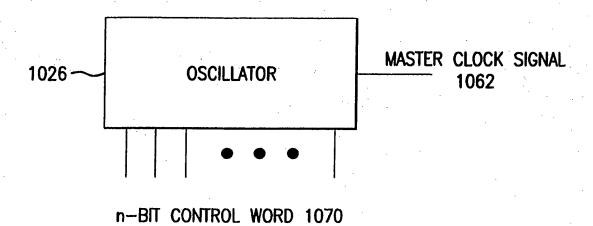


FIG. 18

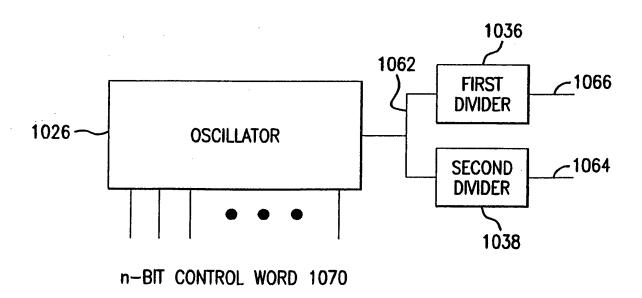


FIG. 19

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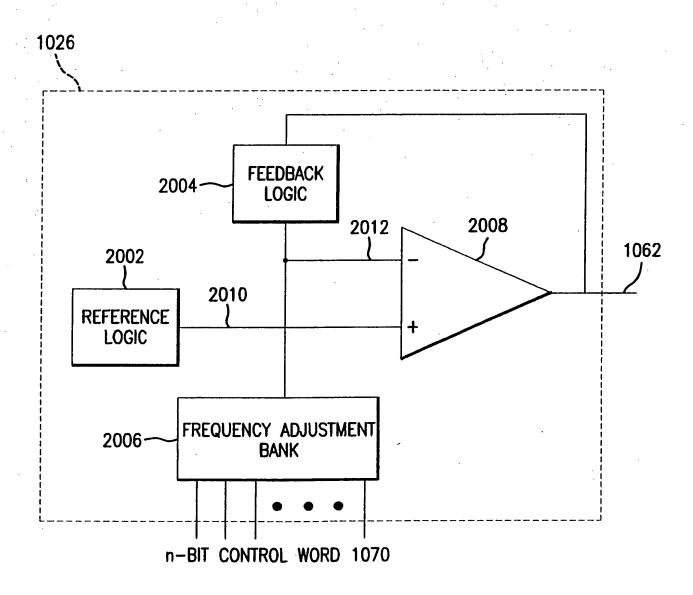


FIG. 20

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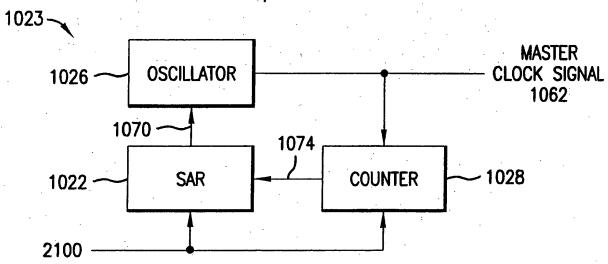
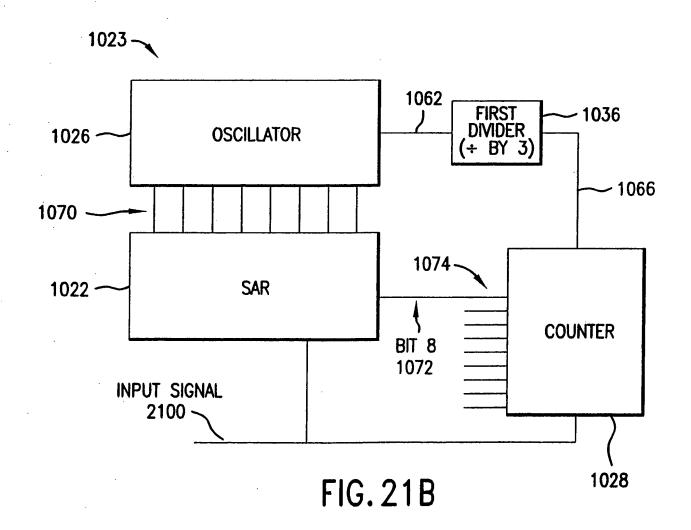


FIG. 21A



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Inventors: SHANKS et al.
Tel. No.: 202-371-2600
For: Method, System and Apparatus for Communicating
With a RFID Tag Population 21/55 302 1074 1070 SAR CONCEPTUAL IMPLEMENTATION OF SAR CALIBRATION 2008 FIG. 21C 2012 **FEEDBACK** <u>ටපු</u> 2006 **DOC** 딾 2002 ပ္ပ PHASE RESET 2182

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With a RFID Tag Population

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PHYSICAL IMPLEMENTATION OF ADJUSTABLE CAPACITOR BANK

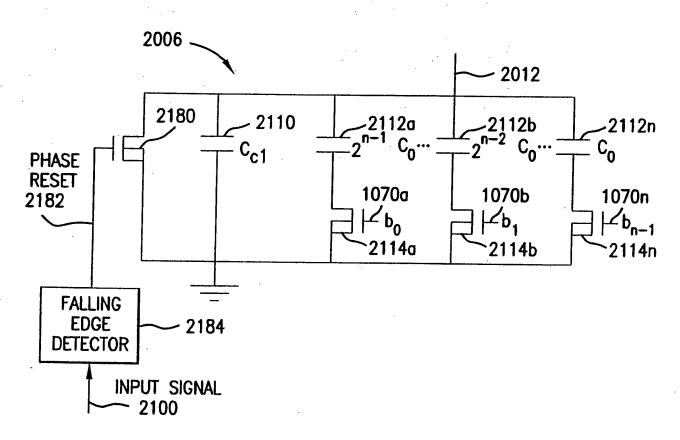


FIG. 21D

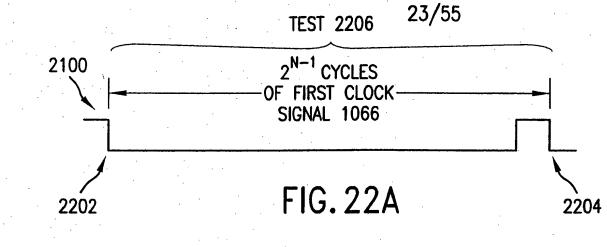
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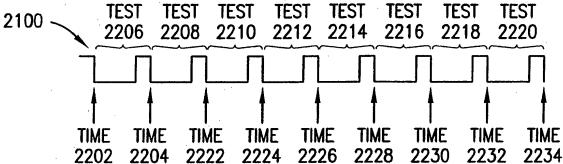
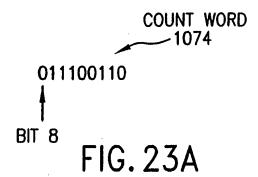


FIG. 22B



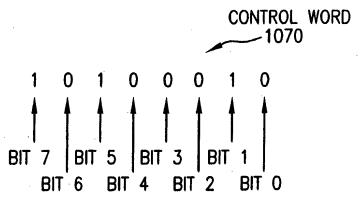


FIG. 23B

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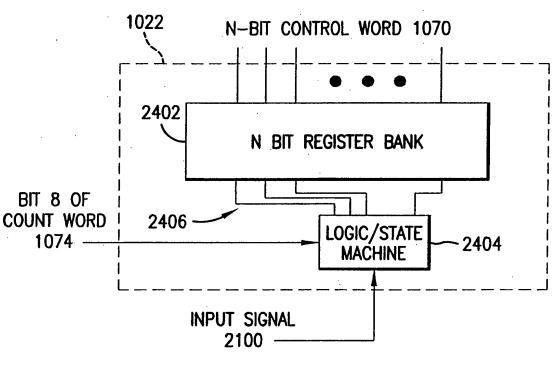


FIG. 24

Dkt No. 1689.0260000; Group Unit: 2636 Inventors: SHANKS et al. Tel. No.: 202-371-2600 For: Method, System and Apparatus for Communicating With a RFID Tag Population 25/55 2500 2502 A COUNT WORD IS INCREMENTED AFTER EACH CYCLE OF THE CLOCK SIGNAL THAT OCCURS DURING A CALIBRATION CYCLE OF THE INPUT SIGNAL 2504 THE OSCILLATOR FREQUENCY IS ADJUSTED BASED UPON THE COUNT WORD AFTER COMPLETION OF STEP 2502 FIG. 25A 2502 A COUNT WORD IS INCREMENTED AFTER EACH CYCLE OF THE CLOCK SIGNAL THAT OCCURS DURING A CALIBRATION CYCLE OF THE INPUT SIGNAL 2504 THE OSCILLATOR FREQUENCY IS ADJUSTED BASED UPON THE COUNT WORD AFTER COMPLETION OF STEP 2502 2506 THE COUNT WORD IS CLEARED 2508 STEPS (a)-(c) ARE REPEATED N TIMES FOR SUBSEQUENT CORRESPONDING CYCLES OF THE INPUT SIGNAL, WHEREIN N IS EQUAL TO THE NUMBER OF BITS OF THE CONTROL WORD

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FIG. 25B

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A COUNT WORD IS INCREMENTED AFTER EACH CYCLE OF THE CLOCK SIGNAL THAT OCCURS DURING A CALIBRATION CYCLE OF THE INPUT SIGNAL

THE OSCILLATOR FREQUENCY IS ADJUSTED BASED UPON THE COUNT WORD AFTER COMPLETION OF STEP 2502

EACH CALIBRATION CYCLE OF THE INPUT SIGNAL FOLLOWED WITH A SEPARATION CYCLE ON THE INPUT SIGNAL

FIG. 25C

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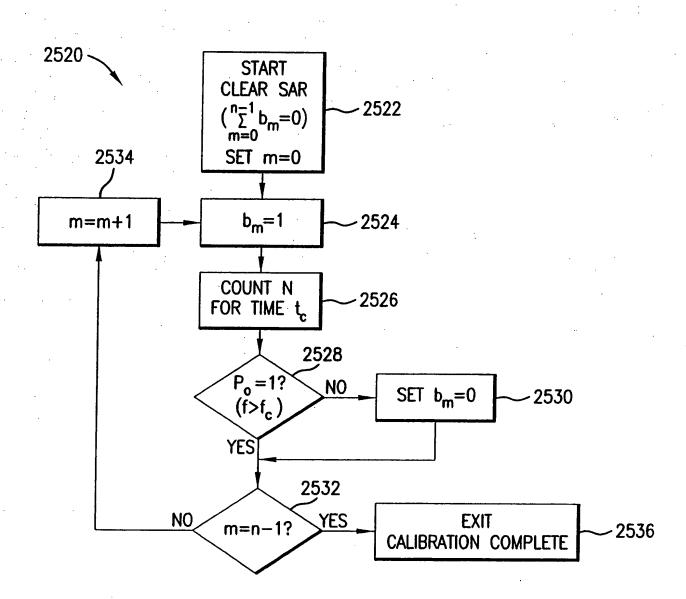


FIG. 25D

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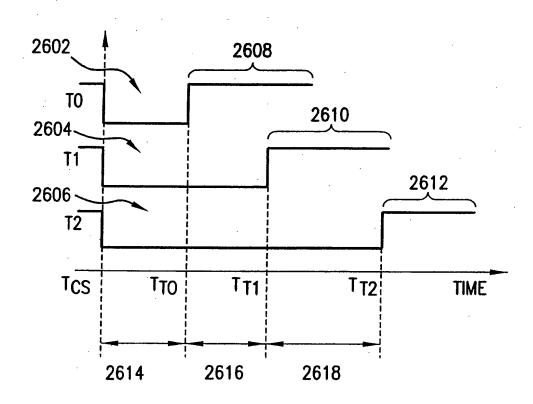
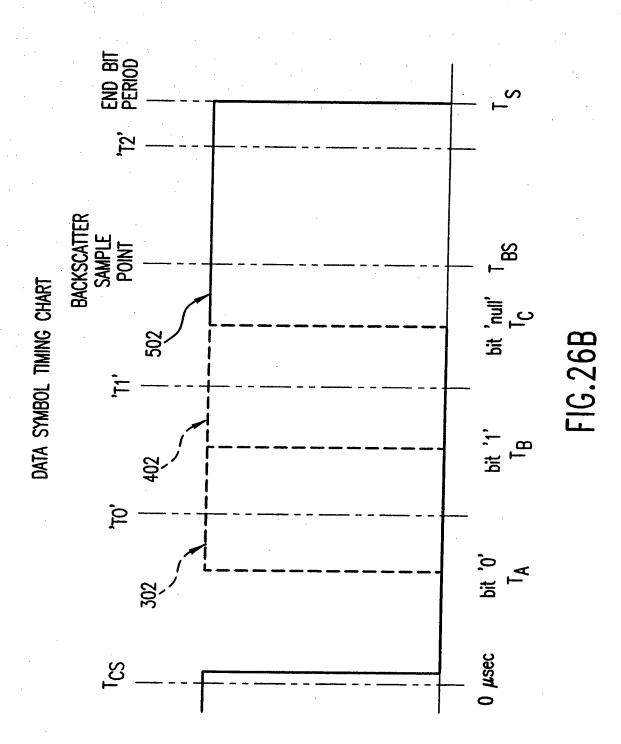


FIG.26A

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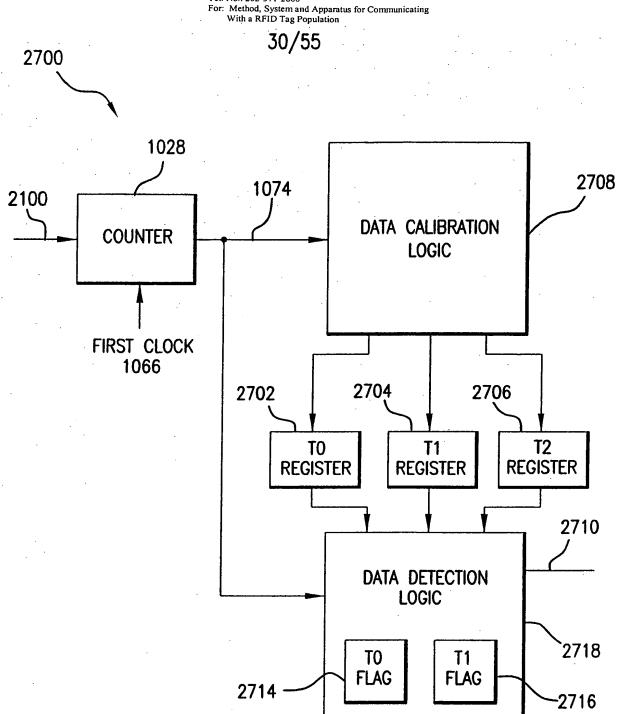


FIG.27

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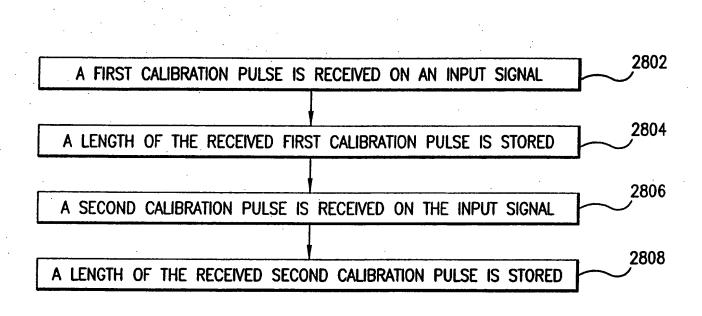


FIG.28A

Inventors: SHANKS et al. Tel. No.: 202-371-2600 For: Method, System and Apparatus for Communicating With a RFID Tag Population 2800 FROM FLOWCHART 2800 2810 A DATA SYMBOL HAVING A PULSE PORTION IS RECEIVED ON THE INPUT SIGNAL, WHEREIN THE PULSE PORTION HAS A LENGTH 2812 A FIRST FLAG IS SET IF THE LENGTH OF THE PULSE PORTION IS GREATER THAN OR EQUAL TO THE STORED LENGTH OF THE FIRST CALIBRATION PULSE 2814. A SECOND FLAG IS SET IF THE LENGTH OF THE PULSE PORTION IS GREATER THAN OR EQUAL TO THE STORED LENGTH OF THE SECOND CALIBRATION PULSE 2816, THE DATA SYMBOL IS DETERMINED TO BE A FIRST LOGICAL VALUE IF THE FIRST FLAG IS NOT SET DURING STEP 2812 2818. THE DATA SYMBOL IS DETERMINED TO BE A SECOND LOGICAL VALUE IF THE FIRST FLAG IS SET AND THE SECOND FLAG IS NOT SET 2820 THE DATA SYMBOL IS DETERMINED TO BE A THIRD LOGICAL VALUE IF THE FIRST FLAG IS SET AND THE SECOND FLAG IS SET 2822 THE FIRST LOGICAL VALUE IS DEFINED AS A LOGICAL 1 BIT 2824. THE SECOND LOGICAL VALUE IS DEFINED AS A LOGICAL O BIT 2826. THE THIRD LOGICAL VALUE IS DEFINED AS A LOGICAL NULL BIT

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FIG.28B

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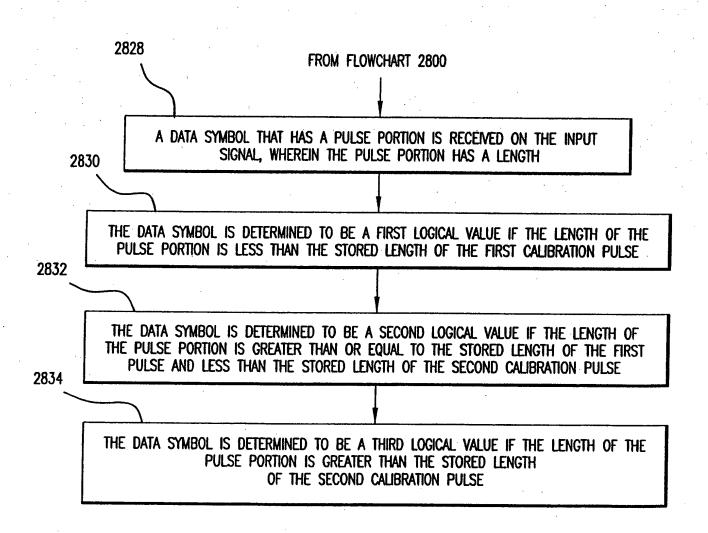


FIG.28C

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Inventors: SHANKS et al.
Tel. No.: 202-371-2600
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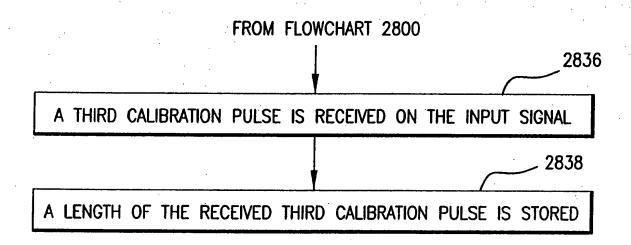


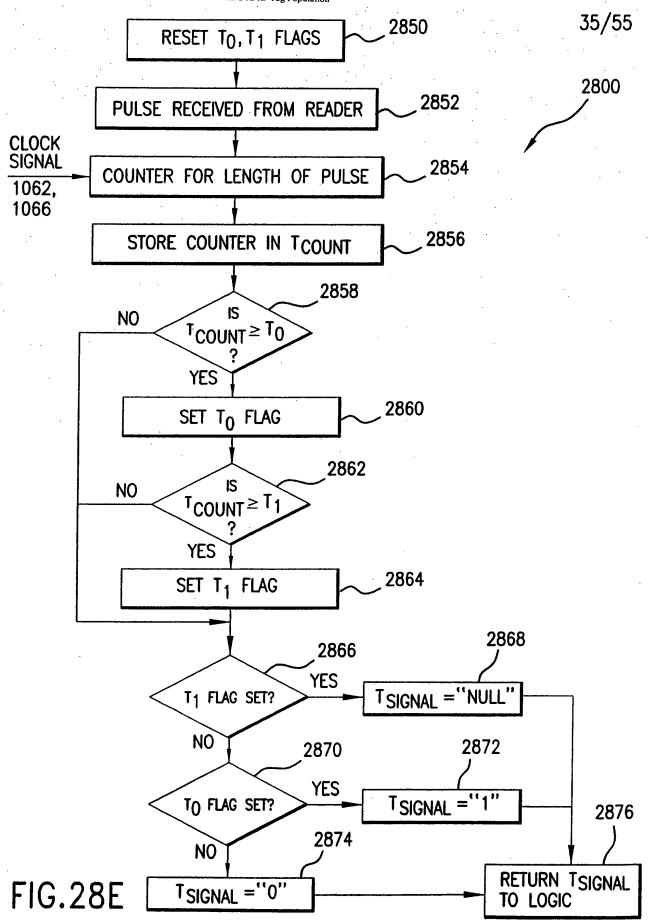
FIG.28D

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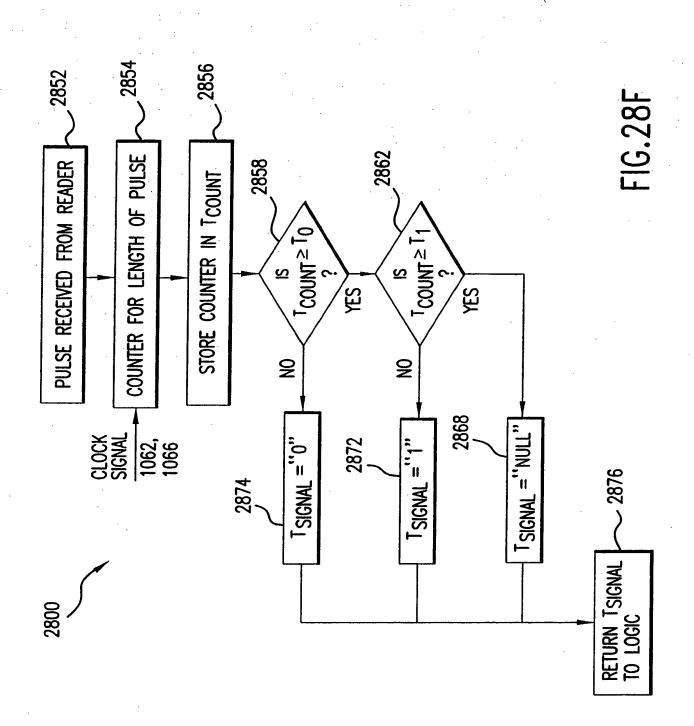
Tel. No.: 202-371-2600

For: Method, System and Apparatus for Communicating With a RFID Tag Population



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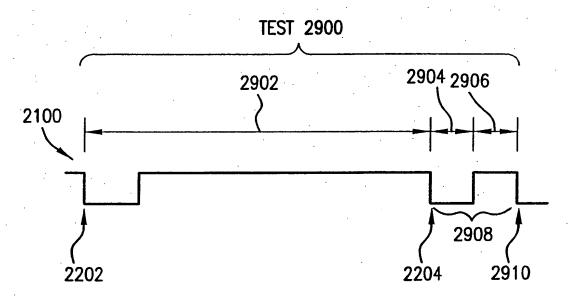


FIG.29

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Tel. No.: 202-371-2600

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With a RFID Tag Population

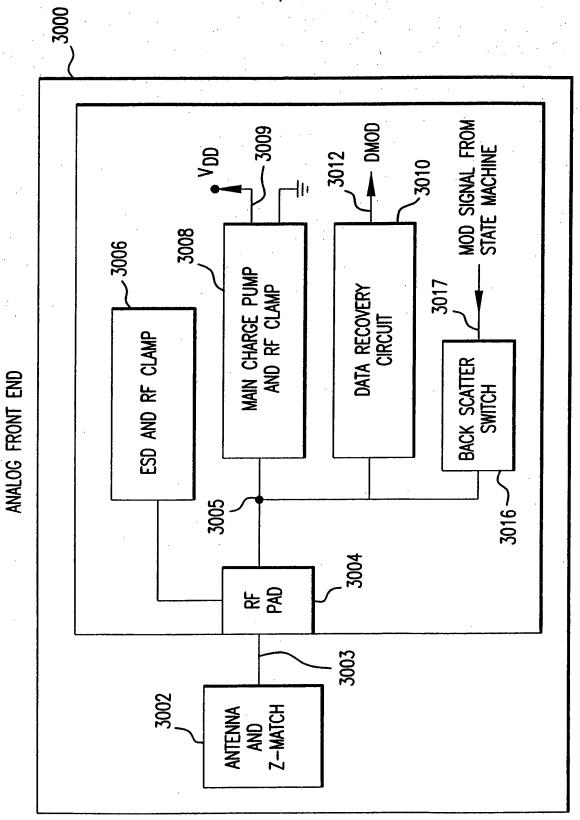
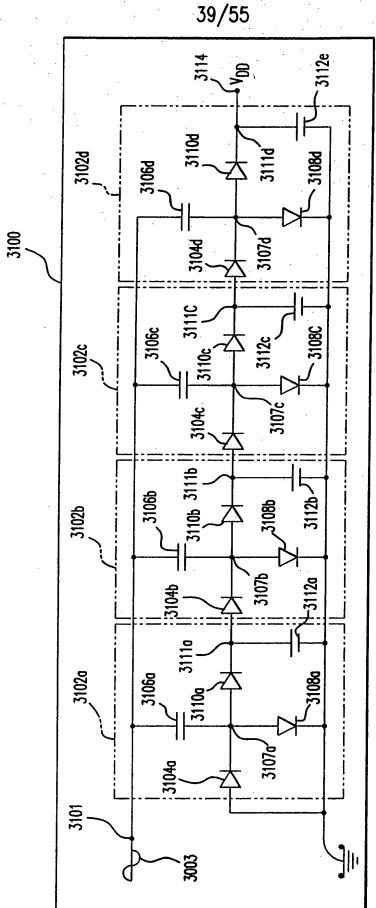


FIG.30

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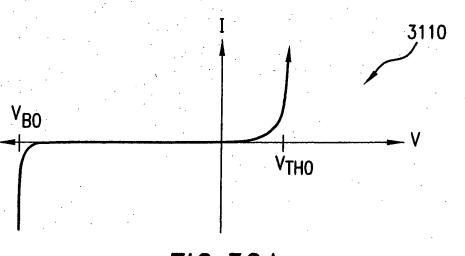


FIG.32A

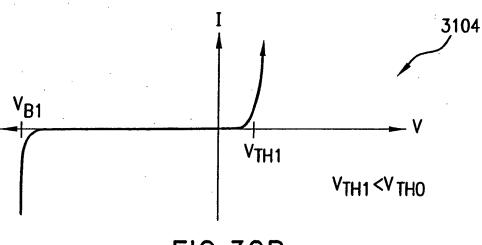


FIG.32B

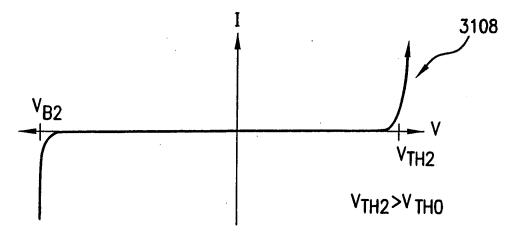


FIG.32C

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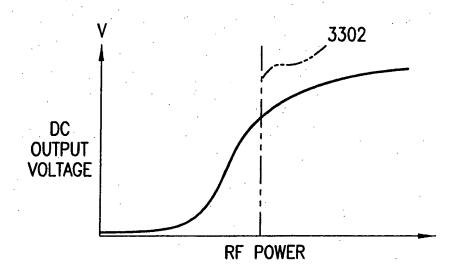


FIG.33A

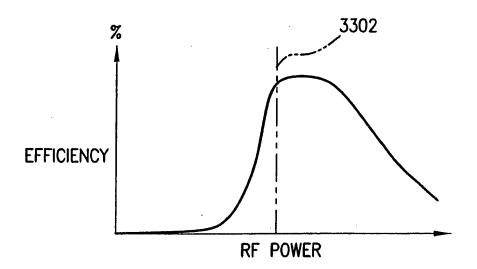


FIG.33B

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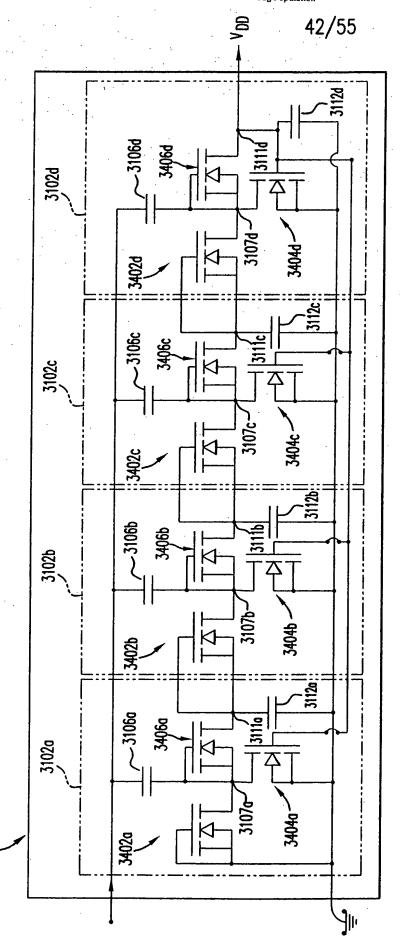
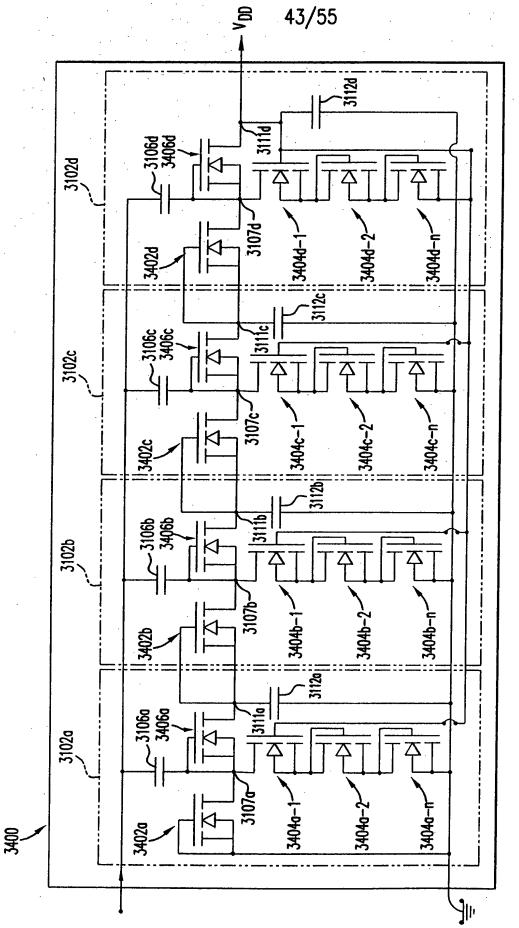


FIG.34A

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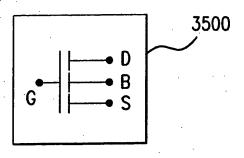


FIG.35A

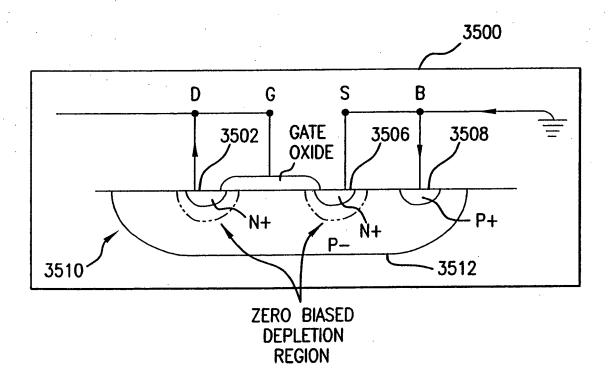


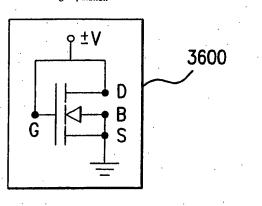
FIG.35B

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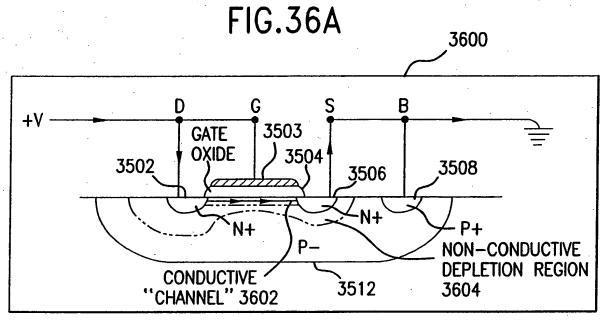


FIG.36B

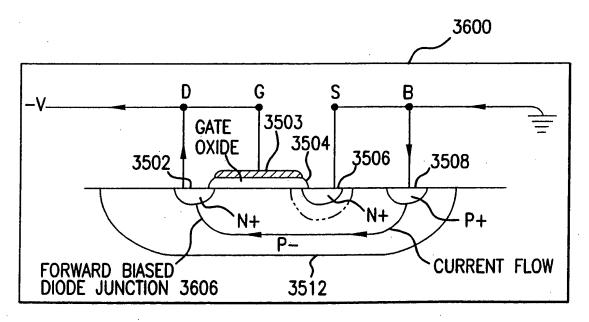


FIG.36C

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With a RFID Tag Population 46/55 o ±V 3700 FIG.37A 3700 CONDUCTIVE
"CHANNEL"
INVERSION 3702 **GATE** 3503 OXIDE 3502 3508 3506 P+ N+ 3706 P-FORWARD BIASED DIODE JUNCTION 3704 3512 FIG.37B 3700 D 3503 **GATE** OXIDE 3504 3506 3502 3508 3708 P-3512

Replacement Sheet

FIG.37C

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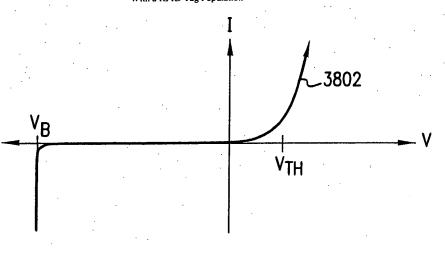


FIG.38A

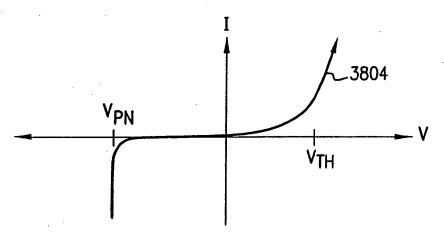


FIG.38B

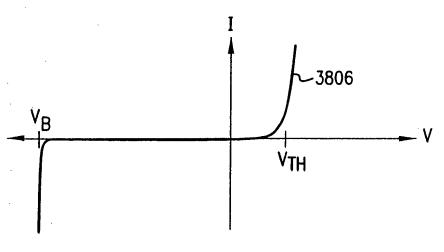


FIG.38C

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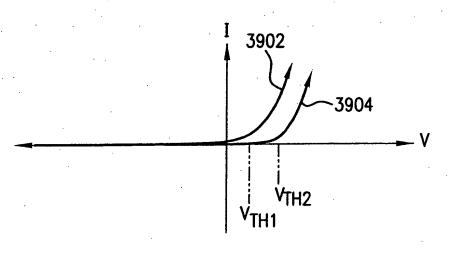


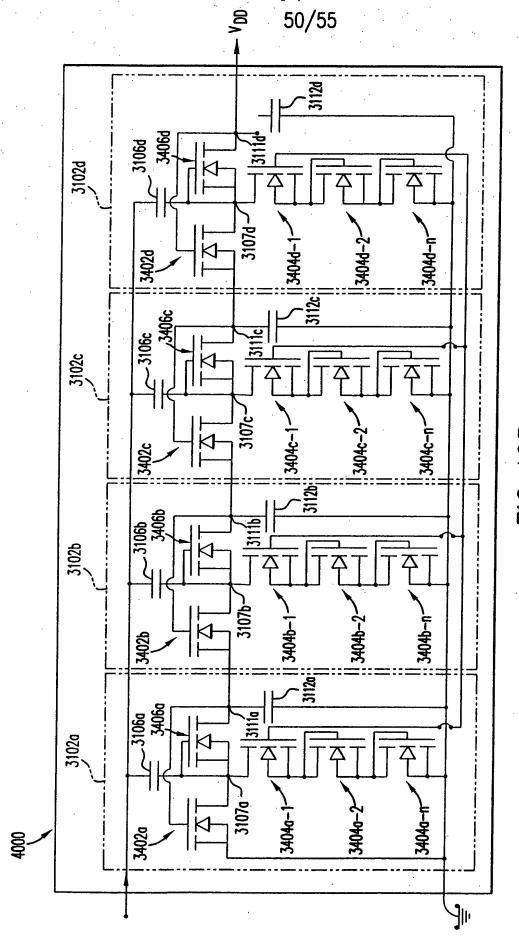
FIG.39

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With a RFID Tag Population 49/55 31126 3110 1

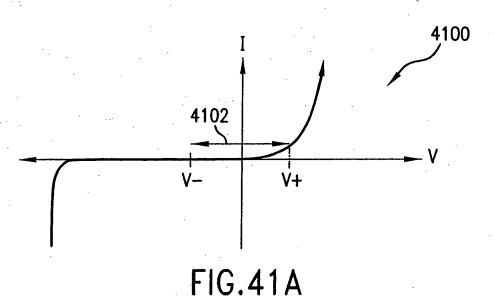
FIG.40A

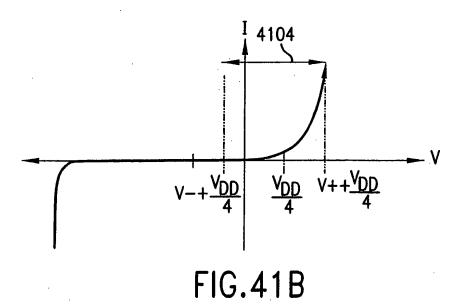
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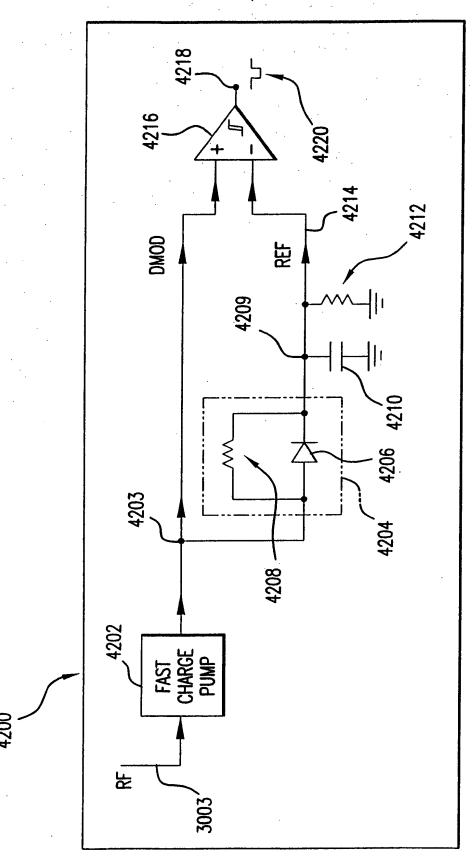


FIG.42

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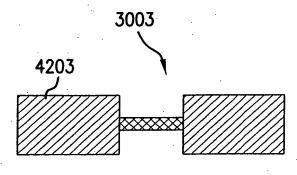


FIG.43A

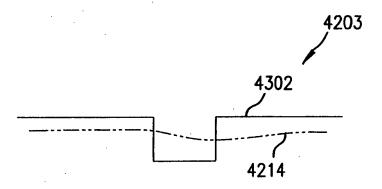


FIG.43B

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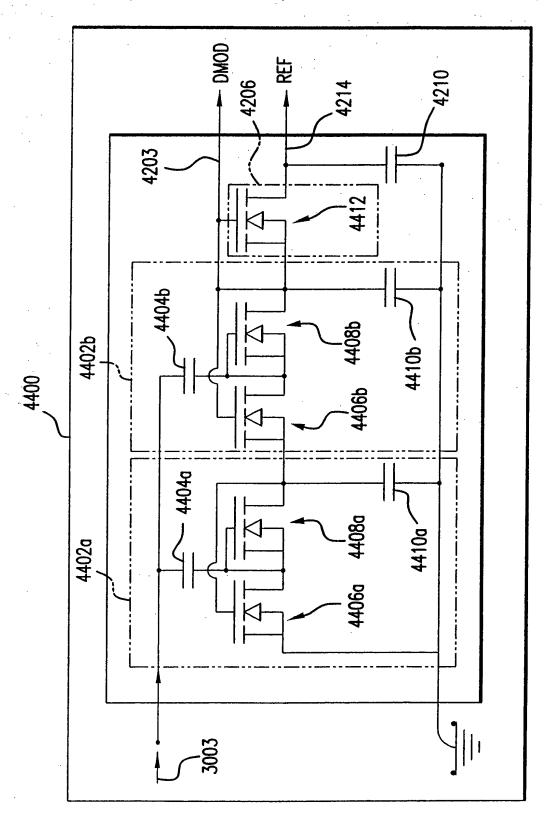


FIG.44

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